

```

#include<stdio.h>
typedef struct nonpresjf
{
int at, bt, ft, tat, wt;
}nonpresjf;
nonpresjf p[20], p1[20];
int main()
{
int i, limit, nextval, m, min, n;
p[0].wt=p[0].tat=0;
printf("\nEnter the no of process: ");
scanf("%d", &n);
for(i=1; i<=n; i++)
{
printf("Enter the arrival time: ");
scanf("%d", &p[i].at);
}
limit=p[1].at;
for(i=1; i<=n; i++)
{
printf("Enter the burst time: ");
scanf("%d", &p[i].bt);
}
for(i=1; i<=n; i++)
limit+=p[i].bt;
for(i=1; i<=n; i++)
p1[i]=p[i];
printf("\n\nTable is as follows: ");
printf("%d", p[1].at);
nextval=p[1].at;
m=1;
do
{
min = 9999;
for(i=1; p[i].at<=nextval && i<=n ; i++)
if(p[i].bt<min && p[i].bt>0)
{
m=i;
min=p[i].bt;
}

nextval+=p[m].bt;
p[m].bt=0;
printf("->P%d->%d", m, nextval);
if(p[m].bt==0)
{
p[m].ft=nextval;
p[m].tat=p[m].ft-p[m].at;
p[m].wt=p[m].tat-p1[m].bt;
p[0].tat+=p[m].tat;
p[0].wt+=p[m].wt;
}
}while(nextval<limit);
p[0].tat=p[0].tat/n;
p[0].wt=p[0].wt/n;
printf("\n\n-----TABLE-----\n");
printf("\nProcess\tAT\tBT\tFT\tTAT\tWT\n");
for(i=1; i<=n; i++)
printf("\nP%d\t%d\t%d\t%d\t%d\t%d\n", i, p[i].at, p1[i].bt, p[i].ft, p[i].tat, p[i].wt);

return 0;
}

```